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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listing of the claims in the application:

LISTING OF THE CLAIMS:

Claims 1-29 (canceled).

Claim 30. (canceled)

Claim 31. (currently amended) The microarray of claim ~~30~~ 91 containing at least about 1,000 cells per square centimeter.

Claim 32. (currently amended) A microarray of claim 87 comprising a solid phase support and at least about 500 cells per square centimeter wherein each cell contains an agent of interest which is a macromolecule, a microorganism, a plant or animal cell, an organelle or a fraction of a biological cell.

Claim 33. (currently amended) The microarray of claim ~~32~~ 87 containing at least about 1,000 cells per square centimeter.

Claim 34. (canceled)

Claim 35. (currently amended) The microarray of claim ~~34~~ 87 containing at least about ~~1,000~~ 5,000 cells per square centimeter.

Claim 36. (canceled)

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Claim 37. (currently amended) The microarray of claim ~~36~~ 90 containing at least about 1,000 cells per square centimeter.

Claim 38-80 (canceled)

Claim 81. (currently amended) The microarray of claim ~~30~~ 90 wherein the agent of interest is a macromolecule, a microorganism, a plant or animal cell, an organelle or a fraction of a biological cell.

Claim 82. (currently amended) The microarray of claim ~~84~~ 91 wherein the macromolecule is a protein.

Claim 83. (currently amended) The microarray of claim ~~30~~ 91 wherein the agent of interest is synthesized prior to contacting the solid phase support.

Claim 84. (currently amended) The microarray of claim ~~30~~ 91 wherein each cell is formed by a solid material adhered to said solid phase support and wherein each solid material contains an agent of interest.

Claim 85. (canceled)

Claim 86. (canceled)

Claim 87. (currently amended) ~~The A microarray of claim 86~~ comprising a solid phase support and at least about 500 cells per square centimeter wherein each cell contains an agent of interest that is not chemically bound to the solid phase support and a plurality of structures bound to said solid phase support, wherein each of a plurality of structures has an immobilized agent of interest available for binding to a target, wherein the target is a binding partner for the agent of interest, and wherein the microarray contains a

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plurality of different agents of interest in a corresponding plurality of different structures and, wherein the structures are permeable to the target.

Claim 88. (previously presented) The microarray of claim 87, wherein the structures are a gel.

Claim 89. (canceled).

Claim 90. (currently amended) ~~The A microarray of claim 86 comprising a solid phase support and at least about 500 cells per square centimeter wherein each cell contains an agent of interest that is not chemically bound to the solid phase support and a plurality of structures bound to said solid phase support, wherein each of a plurality of structures has an immobilized agent of interest available for binding to a target, wherein the target is a binding partner for the agent of interest, and wherein the microarray contains a plurality of different agents of interest in a corresponding plurality of different structures,~~ wherein each of the structure forms a hollow chamber with the agent of interest immobilized on an inner surface of the hollow chamber.

Claim 91. (currently amended) ~~The A microarray of claim 30 comprising a solid phase support and at least about 500 cells per square centimeter wherein each cell contains an agent of interest that is not chemically bound to the solid phase support wherein the solid phase support has a flat surface, and a plurality of structures projecting away from the plane of the solid phase support, wherein each of the plurality of the structures has an agent of interest bound thereto, and wherein the microarray contains a plurality of different agents of interest in a corresponding plurality of different structures.~~

Claim 92. (previously presented) The microarray of claim 91 wherein the structures are made of impermeable material and the agents of interest are immobilized on a surface thereof.

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Claim 93. (currently amended) The microarray of claim 91 wherein the structures were formed by solid material between the structures was being removed.

Claim 94. (currently amended) The microarray of claim ~~34~~ 91 containing at least about 5,000 cells per square centimeter.

Claim 95. (currently amended) The microarray of claim 94 containing at least about 10,000 cells per square centimeter.

Claim 96. (currently amended) The microarray of claim 95 containing at least about 100,000 cells per square centimeter.

Claim 97. (currently amended) The microarray of claim ~~30~~ 91 further comprising a hydrophobic material between the cells on the solid phase support.